ICAM DEPROCESSING PROCEDURE

UNPACKING & INSPECTION:

NOTE: This procedure is written based on unpacking and inspecting a single ICAM. In many instances you will be deprocessing possible hundreds of ICAMs. Use common sense to determine the most efficient procedure for accomplishing the following steps when a large number of ICAMs are involved.

1. Inventory all assets to ensure accountability.

2. Remove the ICAM from the crate and packaging carton; save the packaging carton. Remove and open the ICAM carrying case. If applicable, mark through the radiation symbol on the packaging carton before setting it aside as potential hazardous waste.

3. Open the vapor barrier bag. Remove the ICAM. Mark through the radiation symbol on the bag before setting it aside as potential hazardous waste.

3. Remove and discard desiccant bags beneath the ICAM handle and from the ICAM battery compartment.

4. Visual/y inspect the ICAM for missing and/or broken parts IAW TM 3-6665-343-10. Replace any missing parts. If the ICAM is damaged, obtain disposition instructions from the ICAM Team.

WIPE TESTING:

NOTE: This procedure should be done wearing plastic gloves, with kraft paper taped to the work bench. Gloves and paper should be stored as potential hazardous waste.

1. Using a RADIAC set, AN/VDR-2, establish a background reading of the work area.

2. Record complete mailing address, POC, DSN or commercial phone and fax numbers, date wipes were taken, and reporting activity DODAAC on Wipe Test Request Form (WTRF). Using a felt tipped marker, assign a number to the top of the cap of the plastic vial. Mark the same number in the column marked "VIAL NO." on the WTRF along with the corresponding owing activity DODAAC. Indicate "A" for annual wipe or "M" for maintenance wipe.

3. Remove environmental cap. Record the ICAM serial number from the side of the ICAM and the drift tube module serial number from the disc on the end of the ICAM on the same line of the WTRF that the vial number is recorded on.

4. Moisten a wipe test filter with 2 or 3 drops of water from the kit or clean tap water. Wipe the exterior of the ICAM around the nozzle protective cap assembly, along the case seal and around the environmental cap.

5. Using a RADIAC set, AN/VDR-2, check the wipe test filter for contamination as follows:

(a) Adjust AN/VDR-2 to measure 0 to 0.5 mR/hr.
(b) Open the beta shield of the probe.
(c) Place wipe test filter approximately ¼" in front of the probe and note the indication. "DO NOT TOUCH THE PROBE WITH THE WIPE TEST FILTER".
(d) Place wipe test filter into the plastic vial and seal.
(e) Place the numbered vial(s) along with the WTRF in the pre-addressed packaging envelope provided or other sturdy packaging. Seal the package. Mark the envelope: **MAIL ROOM – DO NOT OPEN.**

6. Mail the samples to the following address:

Rock Island Arsenal
ATTN: SIORI-SEM/RIA RPO
Radiation Test Lab
Rodman Ave., Bldg 210, Room 407
ATTN: **MAIL ROOM - DO NOT OPEN**
Rock Island, Ill 61299-5000

7. Results of the wipe test evaluated by the laboratory will be sent to the address entered on the WTRF.

8. The ICAM can be used immediately after wipe testing unless leakage of Nickel-63 is suspected or an accident has occurred.

9. Proceed with the work area cleanup and Decontaminate (para 3-1b) or Direct Support troubleshooting (para 3-11) as appropriate.

SELF TEST:

NOTE: The nozzle protective cap must be on while the ICAM is running.

1. Perform the procedure that applies:

   a. Turn on the power supply. Connect ICAMs to the power supply after turning it on.
   b. Install four BA 3030 batteries in the Battery Assembly, Training (BAT) and insert into the ICAM battery compartment if 110vac is not available.
   c. Insert the BAT into the ICAM battery compartment. Plug BAT into 110vac outlet.

2. Start each ICAM by pushing the ON/OFF push button switch. If G mode is shown, press the G/H push button switch to change to the H mode and turn the ICAM off, then on again to start up in the H mode.

3. Check the display for two markers, all eight bars, three vertical dots, BL, and WAIT. After 30 seconds, the display should clear to show only H mode, WAIT, and markers.

4. To check the battery contact with the ICAM still connected to the power supply, remove the battery cap. Insert a battery; hold it in the ICAM with the palm of one hand or replace the battery cap. Press the ON/OFF push button and verify the display stays on. Press the ON/OFF switch to switch power back to the power supply; verify that the ICAM continues to run without interruption.

5. Run the ICAM until the WAIT mode clears. After long storage, the ICAM may take up to 1 hour to clear itself of internal moisture. If the ICAM experiences longer run-time, contact Alonzo White, CAM/ICAM Fielding Coordinator, DSN 584-6565.

CONFIDENCE TEST:

1. Remove a confidence sample from its packaging. Twist off the ICAM nozzle protective cap.

2. Insert the ICAM nozzle assembly into the H end of the confidence sample. Depress for one second and remove.

3. Verify that at least three bars are displayed after a few seconds. If the ICAM doesn't show at least three bars, apply the confidence sample for another second. Three dots may appear on the display; ignore them.

4. After the three bars clear from the display, replace the nozzle protective cap to clear the ICAM completely. The display should clear to one or zero bars within 5 minutes.

5. Repeat the procedure in the G mode.